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RE: Application No. 10/559,601

COMMENTS: Attached are the further amended claims. I have marked the claims as "Currently amended", etc. Let me know of any further issues.

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Application No. 10/559,601

Filed 09/08/2006

68. (Currently amended) A method of curing concrete utilizing at least one heating component within uncured concrete by energizing the heating component with electrical power to resistively heat the concrete to a first temperature wherein the concrete has a fast rate of cure and a rate of compressive strength gain and then when the rate of compressive strength gain declines, modifying the electrical power to achieve a different second lower concrete temperature with a slower rate of cure.
69. (Currently amended) The method of claim 68 wherein the amount of electrical power is modified to achieve a maximum rate of compressive strength gain of the concrete.
88. (New) The method of claim 68 further comprising allowing the concrete to cool at a rate that achieves near maximum rate of strength gain for each temperature.
89. (New) The method of claim 68 further comprising allowing the concrete to cool at a rate to achieve a near maximum rate of gain in compressive strength at each temperature.
90. (New) A method for achieving the maximum compressive concrete strength in minimal cure time comprising the following steps:
- (a) heating concrete to a first temperature;
 - (b) monitoring changes in the rate of strength gain;
 - (c) controllably lowering the resistive heat to achieve a second lower concrete temperature;
 - (d) monitor the rate of strength gain at second temperature to maintain a maximum rate of strength gain;
 - (e) controllably decreasing the resistive heat when the rate of strength gain decreases;
 - (f) achieve a new third concrete temperature;
 - (g) monitor the rate of strength gain at the third temperature to maintain a

maximum rate of strength gain

- (h) controllably decreasing the resistive heat when the rate of strength gain decreases;
- (i) achieve a new fourth concrete temperature; and
- (j) monitor the rate of strength gain at the fourth temperature to maintain a maximum rate of strength gain.

91.(New) The method of claim 93 further comprising:

- (a) heating the concrete at 50° C for a time wherein the concrete reaches its maximum rate of strength gain;
- (b) controllably reducing the heat to 35° C;
- (c) controllably reducing the heat to curing at 12.5° C; and
- (d) controllably reduce the heat 5° C.